**Code File For Camera Rental Application According to the Conditions :**

**CLASS – 1 :**

**package** com.CameraRentalApp;

**import** java.util.\*;

**public** **class** CamRentMain {

**private** **static** List<CameraApp> *camlist* = **new** ArrayList<CameraApp>();

**private** **static** **double** *UserMoney*=12000.00;

**private** **static** Scanner *sc* = **new** Scanner(System.***in***);

**private** **static** **int** *IncID*=16;

**private** **static** **void** UserWallet() {

System.***out***.println(*UserMoney*);

System.***out***.println("Do You Want to add Money to your Wallet :\n Enter Your option : \n1. Yes\n2. No");

**int** A=*sc*.nextInt();

**switch**(A){

**case** 1:

System.***out***.println("Enter money you want to add");

**double** addmoney=*sc*.nextDouble();

*UserMoney*=*UserMoney*+addmoney;

System.***out***.println("Total money In your Wallet is "+*UserMoney*);

*SelectOptions*();

**case** 2 :

System.***err***.println("Try Again");

*SelectOptions*();

}

}

**private** **static** **void** camlisting() {

CameraApp camDe=**new** CameraApp(1, "Canon","EOS 5D MARK",5000.9,"Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(2,"Sony", "7D CAM LENS", 2900.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(3,"Samsung", "ONECAUST Mark", 4000.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(4,"Mi", "SONY 7D LENS", 6700.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(5,"DSLR", "7D LENS Mixwl", 1900.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(6,"Apple", "EOS 5D Mark", 2100.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(7,"TATA", "6D LENS IV", 5500.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(8,"HYUNDA", "Mark 72D", 6500.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(9,"MI", "LOOTED 7D", 1545.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(10,"CLASSIC", "800D LENS", 6500.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(11,"CLISOX", "VR PIXE 8D", 1505.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(12,"DSLR", "800MG IV", 6175.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(13,"DCMO", "7K LENS IV", 2500.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(14,"SONY", "800MG IV", 3500.0, "Available");

*camlist*.add(camDe);

camDe=**new** CameraApp(15,"CISCO", "7K LENS IV", 2575.0, "Available");

*camlist*.add(camDe);

}

**private** **static** **void** RentingCam() {

System.***out***.println("Below Are The List of Available Camera's for Rent ");

System.***out***.println("----------------------------------------------------------------------");

System.***out***.println("CamID"+"\t"+" Camera Name"+"\t"+"\t"+"Model"+"\t"+"\t"+"Price Per Day"+"\t"+"\t"+"Status");

System.***out***.println("----------------------------------------------------------------------");

**int** ks =0;

**for** (CameraApp k : *camlist*) {

**if** (k.getStatus()=="Available") {

System.***out***.println(k.getCamID()+"\t"+"\t"+k.getName()+"\t"+"\t"+k.getModel()+"\t"+"\t"+k.getPrice()+"\t"+"\t"+k.getStatus());

++ks;

}

}

**if** (ks==0) {

System.***err***.println("Uff..! You're Late, All Got Rented");

}

System.***out***.println("----------------------------------------------------------------------\n");

System.***out***.println("Select CamId of Camera From the Above List For Rent : ");

Scanner sc = **new** Scanner(System.***in***);

**int** rentID = sc.nextInt();

**boolean** b= **false**;

**for**(CameraApp k : *camlist*) {

**if**(k.getCamID()==rentID && k.getStatus()=="Available") {

**if** (k.getPrice()<=*UserMoney*) {

k.setStatus("Rented");

*UserMoney* = *UserMoney*-k.getPrice();

System.***out***.println("Rented Cam Successfully");

System.***out***.println("Remaining Amount In Wallet "+*UserMoney*);

b= **true**;

**break**;

}

**else** {

System.***err***.println("Error....Insuffient Funds In Your Wallet. Please Deposit The Money..!");

**break**;

}

}

}

**if** (b==**false**) {

System.***err***.println("Enter Correct Input ..!");

}

*SelectOptions*();

}

**private** **static** **void** CameraLi() {

**for** (CameraApp k : *camlist*) {

System.***out***.println(k.getCamID()+"\t"+"\t"+k.getName()+"\t"+"\t"+k.getModel()+"\t"+"\t"+k.getPrice()+"\t"+"\t"+k.getStatus());

}

}

**private** **static** **void** AddingCam() {

CameraApp cam = **new** CameraApp();

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Enter Camera Name :- ");

cam.setName(sc.nextLine());

System.***out***.println("Enter Camera Model :- ");

cam.setModel(sc.nextLine());

System.***out***.println("Enter Price Per Day :- ");

cam.setPrice(sc.nextDouble());

String status="Avaliable";

cam.setStatus(status);

cam.setCamID(*IncID*);

System.***out***.println("Camera Added Successfully To The List ");

*camlist*.add(cam);

++*IncID*;

*InterOptions*();

}

**private** **static** **void** RemovingCam() {

System.***out***.println("Select CamID From the Above List : ");

Scanner sc = **new** Scanner(System.***in***);

**int** rem = sc.nextInt();

**boolean** b= **false**;

**for**(CameraApp k : *camlist*) {

**if**(k.getCamID()==rem) {

*camlist*.remove(k);

b= **true**;

System.***out***.println("Deleted SuccessFully From The List :");

**break**;

}

}

**if** (b==**false**) {

System.***out***.println("Not Found..Enter Correct Input ");

}

*SelectOptions*();

}

**private** **static** **void** InterOptions() {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("1.Add\n2.Remove\n3.View All Camera's\n4.GoTo Previous Menu");

**int** opt=sc.nextInt();

**for** (**int** i=1; i<5;i++) {

**if** (i==opt) {

**switch**(opt) {

**case** 1:

*AddingCam*();

**case** 2:

System.***out***.println("---------------------------------------------------------------------------------------------");

System.***out***.println("CamID"+"\t"+" Camera Name"+"\t"+"\t"+"Model"+"\t"+"\t"+"Price Per Day"+"\t"+"\t"+"Status");

System.***out***.println("---------------------------------------------------------------------------------------------");

*CameraLi*();

System.***out***.println("---------------------------------------------------------------------------------------------\n\n");

*RemovingCam*();

**case** 3:

System.***out***.println("---------------------------------------------------------------------------------------------");

System.***out***.println("CamID"+"\t"+" Camera Name"+"\t"+"\t"+"Model"+"\t"+"\t"+"Price Per Day"+"\t"+"\t"+"Status");

System.***out***.println("---------------------------------------------------------------------------------------------");

*CameraLi*();

System.***out***.println("---------------------------------------------------------------------------------------------");

*InterOptions*();

**case** 4:

*SelectOptions*();

}

}

}

}

**private** **static** **void** LoginForm() {

Scanner sc = **new** Scanner(System.***in***);

String UserName = "admin";

String Password = "admin123";

**boolean** Login= **true**;

**while** (Login == **true**) {

System.***out***.print("Enter Username :- ");

String UserName1= sc.nextLine();

System.***out***.print("Enter Password :- ");

String Password1= sc.nextLine();

**if**(UserName.equals(UserName1) && Password.equals(Password1)) {

System.***out***.println("Login Successful !! \n");

Login = **false**;

}

**else**

System.***out***.println("Error.. ! Try Again...!"); } }

**private** **static** **void** SelectOptions() {

System.***out***.println("Select Any One of the Options : \n");

System.***out***.println("1.My Camera\n2.Rent A Camera\n3.View All Camera's\n4.My Wallet\n5.Exit");

**int** opt=*sc*.nextInt();

**for** (**int** i=1; i<6;i++) {

**if** (i==opt) {

**switch**(opt) {

**case** 1 :

*InterOptions*();

**case** 2:

*RentingCam*();

**case** 3:

System.***out***.println("---------------------------------------------------------------------------------------------");

System.***out***.println("CamID"+"\t"+" Camera Name"+"\t"+"\t"+"Model"+"\t"+"\t"+"Price Per Day"+"\t"+"\t"+"Status");

System.***out***.println("---------------------------------------------------------------------------------------------");

*CameraLi*();

System.***out***.println("---------------------------------------------------------------------------------------------");

*SelectOptions*();

**case** 4:

*UserWallet*();

**case** 5:

System.*exit*(0);

}

}

}

}

**public** **static** **void** main(String[] args) {

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***err***.println(" Welcome to Camera Rental App. ");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.***out***.println(" Enter UserName And Password To Continue To application : \n");

*LoginForm*();

*camlisting*();

*SelectOptions*();

}

}

Class 2: (created for getters and Setters , and For Constructer Methods) :

**package** com.CameraRentalApp;

**import** java.util.ArrayList;

**public** **class** CameraApp {

**private** **int** camID;

**private** String name;

**private** String model;

**private** **double** price;

**private** String status;

**public** **int** getCamID() {

**return** camID;

}

**public** **void** setCamID(**int** camID) {

**this**.camID = camID;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getModel() {

**return** model;

}

**public** **void** setModel(String model) {

**this**.model = model;

}

**public** **double** getPrice() {

**return** price;

}

**public** **void** setPrice(**double** price) {

**this**.price = price;

}

**public** String getStatus() {

**return** status;

}

**public** **void** setStatus(String status) {

**this**.status = status;

}

**public** CameraApp( **int** camID, String name, String model, **double** price, String status) {

**super**();

**this**.camID = camID;

**this**.name = name;

**this**.model = model;

**this**.price = price;

**this**.status = status;

}

**public** CameraApp() {

**super**();

}

}